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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

COUNTRY USSR

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SUBJECT Mining and Metallurgical Equipment

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THIS IS UNEVALUATED INFORMATION

Below is a listing of types of mining and metallurgical equipment made in the USSR, and the names of the plants manufacturing the type of equipment.

<u>Types of equipment</u>	<u>Plants manufacturing the equipment</u>
Mine hoists with one or two drum diameter from three to six meters	N K M Z ; U Z T M ; N K M Z in Elektrostal
Mine hoists with drum diameters less than three meters	Former "Rosse" Plant in Stalino
Chain Cutting (Channeling) Machines with rope draw (for cutting coal)	Gorlovka Machine-Building Plant
Mining (Coal) Combines	"..."
Sectional Centrifugal (Rotary) Pumps for high pressure	"..."
Centrifugal Pumps with one-piece case for high pressure	"..."
Rotary Air Compressors	"..."
Mining Ventilators (Blowers) "Sirocco"-type	"..."
Mining Ventilators (Blowers) "Rato" (?) -type	"..."
Mine Cars	Gorlovka Machine-Building Plant and former "Rosse" Plant

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<u>Types of equipment</u>	<u>Plants manufacturing the equipment</u>
Steel Ropes for common use	Plants in Odessa, Kharkov, Moscow
Scraper Conveyers	Former "Bosse" Plant in Stalino
Shaking Conveyers	Former "Bosse" Plant, Stalino
Belt Conveyers	"Zavod imeni Yanvar'skogo Vostaniya", Odessa
Belt Transferers (Transshipmenters)	---
Elevators	---
Accumulator Mine Lamps	Plant "Svet Shachtera" in Kharkov
Screening Machines of different kinds and productive capacity	Former "Bosse" Plant, Stalino
Flotation Concentration Machines	---
Mine Cages (Buckets)	---
Mine Skips	---
Dragline Scraper Installations	---
Slope (Gradient) Installations (for descending)	---
Slope (Gradient) Hoisting Winches (for lifting)	Former "Bosse" Plant, Stalino
Excavators of heavy and medium types with one bucket (and multi-bucket type?)	U Z T M
Multi-Bucket (?) Excavators of light types	Kovrov Machine-Building Plant
Two large Excavators (one of them was of productive capacity 690 cubic meters per hour; another one-450 cubic meters per hour) were designed for Kamhishburunstroy and were under construction before the outbreak of World War II	N K M Z
One large Belt Transferer (Bandwagen) (productive capacity approximately 720 cubic meters per hour) was built for Kamhishburunstroy	N K M Z
Mine File Drivers (steel)	Former "Bosse" Plant, Stalino
Mine Steel Structures of different types	---
Mine Car Dumpers	---
Hammer Crushers	--- and N K M Z
Crushers, "Symons" type	U Z T M
Crushers, "Blake" type, and some other types of Concentrating Machines	U Z T M and Machine-building Plant in Vihksa (on the Volga)
Ball (Pebble) Mills, large sizes	N K M Z
Ball (Pebble) Mills	Former "Bosse" Plant, Stalino
Runners	Former "Bosse" Plant, Stalino

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<u>Types of equipment</u>	<u>Plants manufacturing the equipment</u>
Electr motors and other electrical equipment	Kh E M Z (Kharkov Electrical Machine-building Plant); M E Z (Moscow Electrical Plant); S E Z (Saratov Electrical Plant)
Mine Electric Locomotives	Kolonna Machine-building Plant (?)
Spare Parts for mine equipment	Gorlovka Machine-building Plant; former "Bosse" Plant and local workshops of mine administrations
Blast Furnace Equipment	U Z T M, S K M Z
Open-Hearth Furnace Equipment	---"
Bessemer Converters	U Z T M, S K M Z
Mixers (Holding Furnaces)	U Z T M, N K M Z
Slag Ladle Cars (Ladle Cars for slag transportation)	U Z T M, N K M Z
Steel Structures for Cupola Furnaces (Cases)	U Z T M, N K M Z, S K M Z, Former "Bosse" Plant, Gorlovka Machine-building Plant and so on.
Slat Feeders of heavy types	U Z T M, N K M Z in Electrostal
Rolling Mill Working Stands for hot rolling-two-high type and three-high type, including the largest	U Z T M, N K M Z (primarily S K M Z)
Rolling Mill Live Rollers	U Z T M, N K M Z, N K M Z in Electrostal
Lengthening Rollers (Tables)	U Z T M, N K M Z, N K M Z in Electrostal
Transportation Rollers (Tables)	---"
Lifting-Swinging Tables	---"
Lifting-Turning Tables	---"
Turning Tables	U Z T M, N K M Z, N K M Z in Electrostal
Pinion Stands, including the largest	U Z T M, N K M Z (now, evidently, N K M Z in Electrostal)
Connecting Spindles (Sets)	U Z T M, N K M Z, N K M Z in Electrostal
Universal Spindles (Sets)	---"
Manipulators and Tilters	---"
Pushers for Blooms and Slabs	---"
Dockyard (Shipyard) Devices	---"
Furnace Pushers	---"
Fixed Adapters	---"
Adjustable (Regulatable) Adapters	---"
Dragging Devices	---"

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Types of equipmentPlants manufacturing the equipment

Fixed coolers (Scaffoldings)

---"

Mechanical Coolers

---"

Steel Furnace Plates for descending bars
from furnaces to furnace rollersU Z T M, N K M Z, N K M Z in
ElectrostatGuillotines for cutting blooms and slabs,
with pressure 1500 tons

N K M Z

Open-type Shears for cutting piles of
structural steel in cold state (pressure
up to 350 tons)

N K M Z

Sheet Billet Shears

N K M Z, U Z T M, S K M Z

Shears for cutting small structural
steel in cold state

Voronezh Machine-building Plant

Two-pair and Multi-pair Disk Shears

N K M Z, S K M Z

Swing (Floating) Shears for cutting
hot billets (Pressure 200 tons)

N K M Z

Eccentric Flying Shears with advancing
blades for cutting hot steel with cross
section 32x32 millimeters, pressure 10 tons

N K M Z

Stationary and Adjustable Disk Sled Saws
for cutting section-shaped profile steel

N K M Z, U Z T M, S K M Z

Gear Reducers for mine and metallurgical
equipment-different kinds of themN K M Z, U Z T M, N K M Z in
Electrostat

Roller Leveling (Straightening) Machines

S K M Z, U Z T M, N K M Z in
Electrostat

Doubblers

S K M Z, N K M Z

Reelers (Coiling Machines)

S K M Z

Folding Machines

S K M Z

Unreeling Machines

S K M Z

Mills for cold rolling

S K M Z

Experimental Mill for rolling in
liquid state

N K M Z

Experimental Rolling Mills Zs K B M M
of laboratory-type for rolling pinionsZs N I I T M A Sh workshops and
cooperationExperimental Rolling Mill Zs K B M M of
laboratory type for rolling profiles of
changeable cross-sections

---"

Lubricating Equipment for rolling mills

Plant "Krasny Metallist" in Leningrad

Charging Trucks

N K M Z, U Z T M, S K M Z

Assembling Lifting Electrical Cranes

N K M Z, N K M Z in Electrostat,
O Z T M (orsk Machine-building Plant)

Ladle Cranes

---"

Stripper Cranes

---"

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<u>Types of equipment</u>	<u>Plants manufacturing the equipment</u>
Cranes "Teegler" types	---"
"Pratzen" Cranes	---"
Charging-Filling Cranes	N K M Z, N K M Z in Electrostal
Ground-Type Charging Machines	N K M Z, N K M Z in Electrostal
Coke Pushers (Extruders)	N K M Z
Transfer Cars for blooms transportation	N K M Z, U Z T M, N K M Z in Electrostal
Carriages for blooms transportation	---"
Maneuvering Motors Cars	Kolmna Machine-building Plant (?)
Gas Generators (for cold gas)	N K M Z
Disintegrators (for coal)	N K M Z
Spare Parts for metallurgical equipment and mine hoisting winches	N K M Z, U Z T M, S K M Z N K M Z in Electrostal and other plants of the Ministry of Heavy Machine-Building

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